HEATMASTER™

UNVENTED (GAS LOG) ROOM HEATER

INSTALLATION AND OPERATING INSTRUCTIONS

Models HM2-MAN, HM2-T and HM2-MIL-18", 24" and 33" Burner Units with HM2-RO and HM2-SO Log Sets

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to this manual for information. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to page 5 of these instructions.

This appliance is for supplemental heating only. It should not be used as a primary heat source for a dwelling.

This heater is equipped with a **PILOT LIGHT SAFETY SYSTEM** designed to turn off the heater if not enough fresh air is available.

DO NOT TAMPER WITH PILOT LIGHT SAFETY SYSTEM

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

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IMPORTANT: BEFORE BEGINNING INSTALLATION READ COMPLETE INSTRUCTIONS CAREFULLY.

WARNING!

When used without fresh air, heater may give off CARBON MONOXIDE, an odorless poisonous gas.

DO NOT TAMPER WITH PILOT LIGHT SAFETY SYSTEM

This heater is equipped with a **PILOT LIGHT SAFETY SYSTEM** designed to turn off the heater if not enough fresh air is available.

If heater shuts off, do not relight until you provide fresh air.

If heater keeps shutting off, have it serviced by a qualified installer, service agency or the gas supplier. Keep burner and control compartment clean.

ATTENTION INSTALLER:

REVIEW AND LEAVE THESE INSTRUCTIONS WITH CUSTOMER FOR FUTURE REFERENCE.

WARNING

- Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney installer.
- This appliance is for installation only in a solid-fuel burning fireplace or approved ventless firebox enclosure.
- Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter the burner flame patterns.
- Do not use a blower insert, heat exchanger or other accessory not approved for use with this burner.

WARNING: This appliance is for installation only in a solid-fuel burning fireplace or approved ventless firebox enclosure.

- Do not use this room heater if any part has been under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- Early signs of carbon monoxide poisoning resemble the flu, with headache, dizziness and/or nausea. If you have these signs, heater may not be working properly. Get fresh air at once! Have heater serviced.
- Some people - pregnant women, persons with heart or lung disease, anemia, those under the influence of alcohol and those at high altitudes are more affected by carbon monoxide than others.
- **WARNING:** When used without fresh air, heater may give off CARBON MONOXIDE, an odorless poisonous gas.
- If heater shuts off, do not relight until you provide fresh air.
- If heater keeps shutting off, have it serviced. Keep burner and control compartment clean.

WARNING

A. Due to high surface temperatures, the appliance should be located out of traffic and away from furniture and draperies.

B. Children and adults should be alerted to the hazard of high surface temperature and should stay away to avoid burns or clothing ignition.

C. Young children should be carefully supervised when they are in the same room as the appliance.

D. Adults must be present at all times while operating this appliance.

E. Do not place clothing or other flammable material near the appliance.

F. Do not leave this appliance operating while unattended or while occupants are sleeping.

G. Any safety screen or guard removed for servicing the appliance must be replaced prior to operating the appliance.

H. Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

I. Any change to this heater or its controls can be dangerous.

WARNING

- This room heating appliance is factory designed to produce a flame having a clean and virtually transparent appearance. If at any time the appliance begins to appear abnormal due to excessive yellow flames, noticeable odor, or any carbon deposits on the logs, immediately turn the appliance to the "OFF" position and contact a qualified service technician or the gas company.
- While operating this appliance using propane (LP) gas, the flame burning characteristics may vary as the gas level in the LP tank approaches empty or less than ¼ full.
- Unvented gas logs are intended for supplemental heat and are not to be used as a primary heating source. When operated for an extended period of time this room heating appliance can produce moisture that could create condensation, requiring additional ventilation to the home. (EXAMPLE: Partially open a window, partially open the fireplace vent, if applicable.)
- Do not remove from this unit any of the attached metal plates which contain important safety and operating information.

IMPORTANT INFORMATION

- This appliance is design certified by CSA International under the ANSI Z21.11.2b-1998 Unvented Heaters, ANSI Z21.60-1996 CGA 2.26-M96, Decorative Appliances for Installation in Solid-Fuel Burning Fireplaces. ANSI Z21.60-1996 CGA 2.26-M96 only applies to manual and millivolt control valve units and does not apply to thermostat control units. State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.
- This appliance must have a fireplace screen in place while the appliance is operating and, unless other provisions for combustion air are provided, the screen shall have an opening(s) for introduction of combustion air.
- The flue damper in an existing vented solid-fuel burning fireplace must be closed at all times when operated as an unvented room heater.
- No solid-fuels shall be burned in a fireplace where an unvented room heater is installed.
- This appliance must not be installed in a bedroom, bathroom or any room where an occupant could possibly be sleeping.
- Always have glass fireplace doors open completely and have fireplace screen closed when operating this appliance.
- When installing this appliance in a fireplace with a mantle, always follow guidelines listed in the *Installation Clearances* section of this brochure.
- If a hood is required to be installed on your fireplace due to mantle clearances, contact your dealer or HEATMASTER, INC. for availability of the hood.

Any outside air ducts and/or ash dumps in the fireplace shall be permanently closed at the time of the appliance installation.

COMBUSTION AND VENTILATION PROVISIONS

WARNING: This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air.

Confined Space and Unconfined Space

The National Fuel Gas Code, ANSI Z223.1 defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8m^3 per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per Btu per hour (4.8m^3 per kw) of the aggregate input rating of all appliances in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

WARNING: If the area in which the heater may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1, Section 5.3 or applicable local codes.

Unusually tight construction is defined as construction where:

a. Walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of 1 perm (6 x10^{-11} kg per pa-sec-m^2) or less with openings gasketed or sealed, and
b. Weather stripping has been added to openable windows and doors, and
c. Caulking or sealants are applied to areas such as joints around windows and door frames, between sole plates and floors, between wall-ceiling joists, between wall panels, at penetrations for plumbing, electrical and gas lines and at other openings.

Instructions for determining maximum Btu's for a room

Step 1

This calculation is for combustion and ventilation air provisions only and is not intended to be used for sizing for heating comfort. To determine the maximum Btu's allowed for a given room size you will need to calculate the volume of the room in cubic feet. To perform this calculation, fill in the table below and multiply the room's width, length and height to obtain the room volume in cubic feet.

ROOM LENGTH		ROOM WIDTH		ROOM HEIGHT		ROOM VOLUME IN CUBIC FEET
	X		X		=	

Example: If your room is 20 feet in length, 16 feet wide and has an 8 foot ceiling height, the calculation would be as follows: 20 x 16 x 8 = 2,560 cubic feet.

Step 2

Divide the room volume by 50 cubic feet to determine the maximum Btu's per hour the room can utilize.

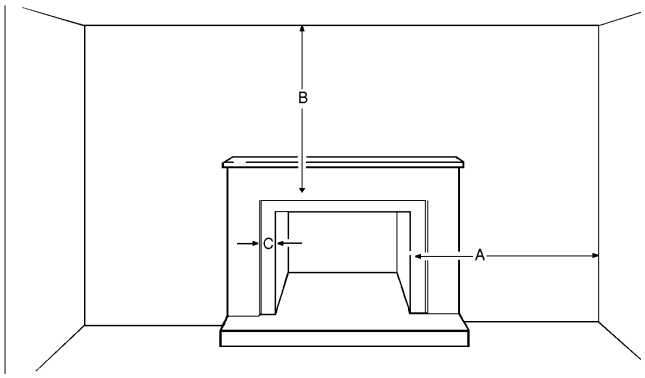
Example: Using the above example: 2,560 cubic feet divided by 50 = 51.2 x 1,000 = 51,200 Btu's.

If the rating of your appliance plus any other gas appliances installed in the space is rated at more Btu's than the example calculated above, you must follow instructions for confined space. See shaded WARNING above. If your appliance is rated at less Btu's than the example calculated above, then your area is considered unconfined space.

INSTALLATION CLEARANCES

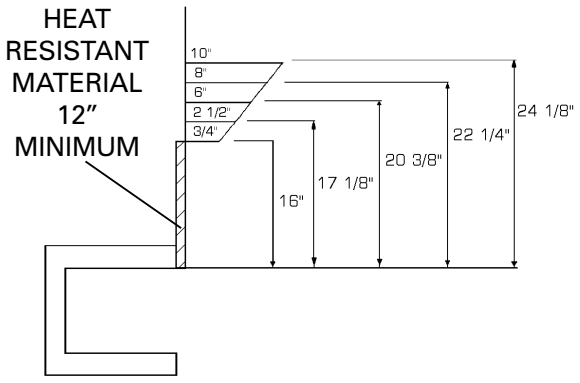
To ensure a safe installation in a masonry or approved factory built fireplace, the following instructions must be carefully followed.

- A) Minimum clearance from the side of the fireplace opening to any combustible wall should not be less than 15 inches.
- B) Minimum clearance from the top of the fireplace opening to any combustible ceiling should not be less than 42 inches.
- C) Minimum clearance from the side of the fireplace opening to part of a mantle piece should not be less than 6 inches. See figure at right.

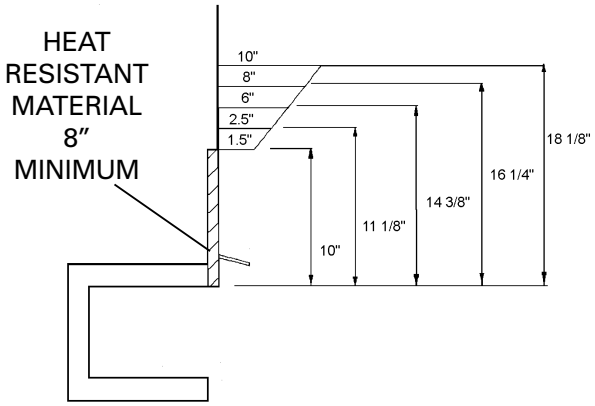


Minimum mantle clearance when unit is installed as a vent free appliance in a pre-existing fireplace.

Minimum Mantle Clearance Without Hood



Minimum Mantle Clearance With Hood



NOTE: The stated installation clearances provide the safest distance for combustible materials to ensure that walls, ceilings and mantle components will not be affected by heat discoloration, warpage, or possible fire. Each appliance installation presents a different set of variables which can create problems beyond the control of the gas log manufacturer. It is the responsibility of the installer to stay within the minimum clearances stated and set forth by the manufacturer within this instruction manual.

INSTALLATION INSTRUCTIONS WHEN INSTALLING AS A VENT FREE APPLIANCE

The installation of this appliance must conform with local codes or, in the absence of local codes with the National Fuel Gas Code, ANSI Z223.1.

NOTE: Before the unit is connected to any gas line, check the name plate on the unit for the proper gas type you will be using.

The appliance regulator furnished on the appliance is not intended to regulate any gas pressure above ½psig. If using LP gas, a low pressure regulator (not furnished) must be installed in the gas line between the tank and appliance. Do not connect the appliance to the gas line if this regulator is not in place. If using natural gas, check with the gas company to insure that proper gas pressure is available.

WARNING: An explosion could occur if a connection is made directly to an unregulated LP gas tank.

GAS PRESSURE: Minimum inlet gas supply pressure must be 5.0" WC for natural gas or 11" WC for LP gas for the purpose of input adjustment. Maximum inlet gas supply pressure must not exceed 10.5" WC for natural gas, or 14" WC for LP gas. The gas line supplying the appliance must be sufficient size to furnish the appropriate supply pressure to the appliance when being operated on the high setting.

- The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psig (3.5kPa).
- The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½psig (3.5kPa).
- Always keep appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- Pressure tap screws must be closed before turning on gas to appliance.
- Any outside air ducts and/or ash dumps in the fireplace shall be permanently closed at the time of the appliance installation.
- Special provisions should be made if the unit is to be installed into a sunken fireplace by raising the floor of the fireplace using non-combustible materials to ensure adequate airflow.

ASSEMBLY INSTRUCTIONS

1. Remove grate/burner assembly from the box and place in the center of the fireplace.
2. Connect the gas line to the appliance regulator located under the grate. NOTE: *The manual and thermostat valve units will have this appliance regulator. The millivolt valve will not have this regulator. The appliance regulator is built into the millivolt valve and the gas line is connected to the valve.*
3. Make sure the gas connections are tight. Turn on the gas and coat each joint with a soap and water solution and watch for air bubbles, which will indicate leaks. Any leaks must be corrected before proceeding with installation. DO NOT USE A FLAME OR ANY IGNITION SOURCE TO CHECK FOR LEAKS.
4. Remove logs from the box. Notice the notches in the larger logs and the numbers on the bottom of the same logs. *The log placement is very important to the safe operation of the appliance*.

   NOTE: ***Match the log placement photo in this instruction manual with the model number of your log set for correct log placement. The logs MUST be placed exactly as shown. If there is any evidence of carbon or blackening on the logs, they may be incorrectly placed. There should not be any carbon or blackening on the logs at any time.***
5. Place the back log in the grooves on the elevated cradle toward the back of the grate making sure the grooves in the bottom of the log fit on the cradle.
6. Place the middle log in the grooves on the center elevated section of the cradle making sure the grooves in the bottom of the log fit on the cradle. This will position this log between the burner.
7. Place the front log on the front of the grate in front of the cradle making sure the grooves on the bottom and front of the log fit the bars on the grate.
8. Place the small top logs in the grooves on top of the front and back log, making sure these logs lay across the middle log in the appropriate groove.
9. Match the model number of your log set with the log set on pages 13 and 14 of this instruction manual. Your log set should look like this. If it doesn't, follow steps 5 through 8 above.

This appliance may be installed in an aftermarket *permanently located, manufactured (mobile) home, where not prohibited by state or local codes.

*Aftermarket: Completion of sale, not for the purpose of resale, from the manufacturer.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

OPERATING INSTRUCTIONS

for

LOG SET AS IT COMES FROM THE FACTORY

If a wall switch, thermostat or remote control has been purchased, you must follow installation and operating instructions on pages 11and 12 of this instruction manual.

HM2-MAN 18,24 & 33 LP and Natural Gas (See FIG. 1)

1. Notice the white marker line between the igniter button and the control knob. This white marker line is the line-up mark for the control knob.
2. Follow the safety information on page 15 of this instruction manual.
3. Follow the lighting instructions on page 15 of this instruction manual.
4. **NOTE**: ***Your log set main burner will ignite when you complete the next step.***

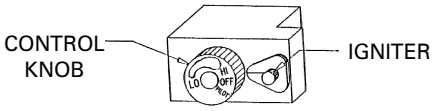


FIG. 1

5. Once the pilot is lit, rotate the control knob counterclockwise ↶ . As you rotate the control knob counterclockwise ↶ , the main burner will ignite on the minimum heat setting. Continuing to rotate the knob counterclockwise ↶ will allow the burner to increase to the highest setting. You can leave the control knob where you prefer, either at the low or high setting.
6. To turn the main burner OFF, simply rotate the control knob clockwise ↷ to the "PILOT" position. This will allow the pilot to continue to burn, until you are ready to burn the set again.
7. Your log set has two settings, HI and LOW. You can burn your log set at the range you prefer.
8. To turn you log set completely off, simply rotate the control knob clockwise ↷ to the "OFF" position. If this is done, the pilot must be re-ignited the next time you use your log set.

HM2-T 18,24 & 33 LP and Natural GAS (See FIG. 1)

1. Notice the white marker line between the igniter button and the control knob. This white marker line is the line-up mark for the control knob.
2. This log set operates by a thermostatic bulb that is attached to the control valve. The manufacturer attaches the bulb at a location that should give you fairly accurate operation of the control, however, the bulb can be relocated to a place farther away from the flame. If this is done, be sure not to crimp the small tube that attaches the bulb to the valve. This will cause damage resulting in thermostat malfunction.
3. Follow the safety information on page 15 of the instruction manual.
4. Follow the lighting instructions on page 15 of this instruction manual.
5. **NOTE**: ***Your log set main burner will ignite when you complete the next step.***
6. Once the pilot is lit, rotate the control knob counterclockwise ↶ . As you rotate the control knob counterclockwise ↶ , the main burner will ignite first on the minimum heat setting. Continuing to rotate the knob counterclockwise ↶ will allow the burner to increase to the highest setting.

7. Allow the unit to operate at the highest setting until the room temperature reaches your comfort level.
8. Turn the control knob clockwise ↷ until the flame goes out. This sets the control valve to operate in this temperature range.
9. After the log set cycles a few times, you can increase or decrease the temperature setting simply by rotating the control knob toward "HI" or "LOW".
10. To turn the main burner off, simply rotate the control knob clockwise ↷ to the "PILOT" position. This will allow the pilot to continue to burn until you are ready to use the log set again.
11. To turn the log set completely off, rotate the control knob clockwise ↷ to the "OFF" position. If this is done, the pilot must be re-ignited the next time you use your log set.

HM2-MIL 18, 24 & 33 LP & Natural Gas (See FIG. 2)

NOTE: ***This log set is shipped from the factory to operate without the use of any accessory (i.e. wall switch, thermostat, remote control). If any of these accessories are used, you must follow the appropriate instructions for these accessories.***

- Notice the marking slots that are located adjacent to the control knobs. These notches are the line-up points for the control knob positions.
- The ON/OFF control knob cannot be turned unless it is pushed in slightly.

1. Place the ON/OFF control knob in the "OFF" position.
2. Follow the safety information on page 16 of this instruction manual.
3. Follow the lighting instructions on page 16 of this instruction manual.

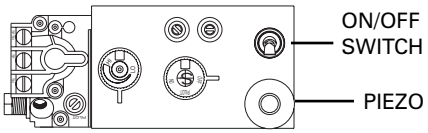


FIG. 2

4. **NOTE**: ***Make sure the ON/OFF switch is in the "OFF" position or your log set main burner will ignite when you follow the next step.***
5. Once the pilot is lit, rotate the ON/OFF control knob counterclockwise ↶ to the "ON" position.
6. Flip the ON/OFF switch to the "ON" position.
7. You can now set the log set to HI or LOW by turning the HI/LOW knob to the desired position.
8. Your log set can be operated at any position between HI or LOW, depending on the amount of heat output you prefer.
9. To turn the main burner off, flip the ON/OFF switch to the "OFF" position. This will allow the pilot to continue to burn until you are ready to use the log set again.
10. To turn the log set back on, flip the ON/OFF switch to the "ON" position. (You can turn your log set off and on with the toggle switch.)
11. To turn your log set completely off, flip the ON/OFF switch to the "OFF" position and rotate the ON/OFF control knob clockwise ↷ to the "OFF" position. If this is done, the pilot must be re-ignited the next time you use the log set.

INSTALLATION INSTRUCTIONS for HM2 MIL 18,24 & 33 ACCESSORIES (Wall Switch, Thermostat, Remote Control)

WALL SWITCH

- **It is suggested by the manufacturer that a qualified individual complete this installation.**
- Your HM2 MIL Series log set is shipped from the factory set up to operate without the use of any of the accessories. To hook up this accessory you must follow these instructions:
- Notice the electric terminal block on the control valve, located on the left hand side of the valve when facing the front of the valve and the two wires that are attached to the back of the ON/OFF switch. (FIG. 3)

1. Remove the wire that is connected to the two terminals marked TH on the terminal block and remove the other ends of the wires that are attached to the ON/OFF switch and discard the wire.
2. Run wire (included) from the log set to the location of the wall switch.
3. **It is recommended that only the wire furnished with the thermostat is used.**

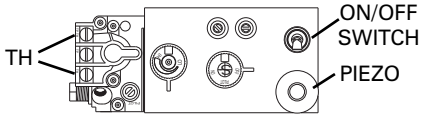


FIG. 3

4. Attach the two wires to the wall switch, one to each of the terminals on the wall switch.
5. Make sure the wall switch is turned off and install the switch in the wall box (not furnished) and install the cover.
6. Attach the two wires at the log set to the two terminals marked TH on the terminal block. (Make sure the wall switch is turned off.)
7. Notice the notch in the metal plate on the right hand side of the ON/OFF knob. This notch is the line-up mark for the ON/OFF control knob.
8. Follow the safety information on page 16 of this instruction manual.
9. Follow the lighting instructions on page 16 of this instruction manual.
10. After lighting the pilot and turning on the main ON/OFF control knob, turn the wall switch to the "ON" position. This should cause the gas log set to come on. You can now adjust the HI/LOW knob to the desired level.
11. You can turn your log set off and on with the wall switch and not use the ON/OFF control knob.
12. **It is recommended that you turn the ON/OFF control knob to the "OFF" position when leaving home for any period of time.**

WALL THERMOSTAT

- **It is suggested by the manufacturer that a qualified individual complete this installation.**
- Your HM2 MIL Series log set is shipped from the factory set up to operate without the use of any of the accessories. To hook up this accessory you must follow these instructions:
- Notice the electric terminal block on the control valve, located on the left hand side of the valve when facing the front of the valve and the two wires that are attached to the back of the ON/OFF switch. (FIG. 3)

1. Remove the jumper wire that is connected to the two terminals marked TH on the terminal block and remove the other ends of the wires that are attached to the ON/OFF switch and discard the wire. (NOTE: The ON/OFF switch will no longer have any function once you have installed one of the accessories.)
2. Run wire (included) from the log set to the location of the wall thermostat.
3. **It is recommended that only the wire furnished with the thermostat is used.**

4. Attach the two wires to the wall thermostat, one to each of the terminals on the wall thermostat.
5. Make sure the ON/OFF lever on the wall thermostat is turned off and mount the wall thermostat. The cover of the thermostat snaps off for access to the mounting screw location.
6. Attach the two wires at the log set to the two terminals marked TH on the terminal block. (Make sure the wall thermostat is turned off.)
7. Notice the notch in the metal plate on the right hand side of the ON/OFF knob. This notch is the line-up mark for the ON/OFF control knob.
8. Follow the safety information on page 16 of this instruction manual.
9. Follow the lighting instructions on page 16 of this instruction manual.

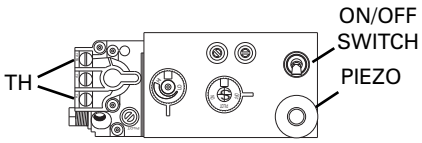


FIG. 3

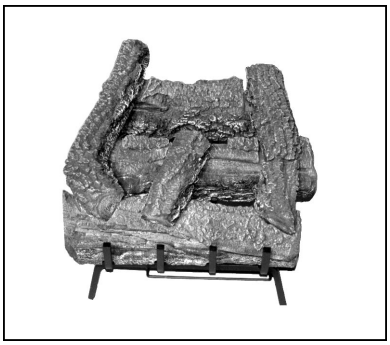
10. After lighting the pilot and turning on the main ON/OFF control knob, turn the wall thermostat ON/OFF lever to the "ON" position. Adjust the temperature lever to the desired position. The gas log set will operate on and off depending on the position of the temperature control lever. You can now adjust the HI/LOW knob to the desired level. If you have the HI/LOW control knob on "HI" the log set will burn on high flame when the thermostat calls for heat. If you have the HI/LOW control knob on "LOW" the log set will burn on low flame when the thermostat calls for heat.
11. You can allow your log set to operate by the thermostat setting or, you can keep the log set from operating by turning the ON/OFF lever to "OFF" on the thermostat.
12. **It is recommended that you turn the ON/OFF control knob on the control valve to the "OFF" position when leaving home for any period of time.**

THERMOSTAT REMOTE CONTROL

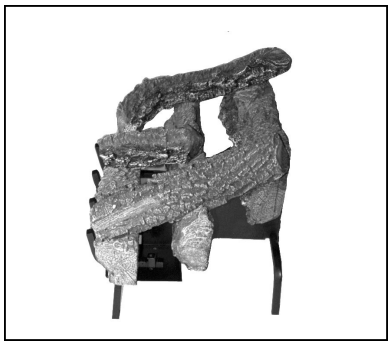
- **It is suggested by the manufacturer that a qualified individual complete this installation.**
- Your HM2 MIL Series log set is shipped from the factory set up to operate without the use of any of the accessories. To hook up this accessory you must follow these instructions:
- Notice the electric terminal block on the control valve, located on the left hand side of the valve when facing the front of the valve and the two wires that are attached to the back of the ON/OFF switch. (FIG. 3)

1. Remove the jumper wire that is connected to the two terminals marked TH on the terminal block and remove the other ends of the wires that are attached to the ON/OFF switch and discard the wire. (NOTE: The ON/OFF switch will no longer have any function once you have installed one of the accessories.)
2. Follow the instructions supplied with the Thermostat Remote Control. <u>This is a millivolt gas valve.</u> **It is recommended by Heatmaster, Inc. that all precautions are followed exactly.** (In the instructions supplied with the remote control, there are instructions about a crackling sound system. This is an optional system and is not available from Heatmaster, Inc.)
3. Notice the notch in the metal plate on the right hand side of the ON/OFF knob. This notch is the line-up mark for the ON/OFF control knob.
4. Follow the safety information on page 16 of this instruction manual.
5. Follow the lighting instructions on page 16 of this instruction manual.
6. After lighting the pilot and turning on the main "ON/OFF" control knob, you can now operate the log set according to the remote control instructions. You can now adjust the HI/LOW knob to the desired level. There is a notch in the metal plate at the bottom of the HI/LOW control knob that is used for a line-up mark. If you have the HI/LOW control knob on "HI" the log set will burn on high flame when the thermostat calls for heat. If you have the HI/LOW control knob on "LOW" the log set will burn on low flame when the thermostat calls for heat.
7. **It is recommended that you turn the ON/OFF control knob on the control valve to the "OFF" position when leaving home for any period of time.**

LOG PLACEMENT PHOTOS (RO SERIES)



HM2-RO-18 Front View

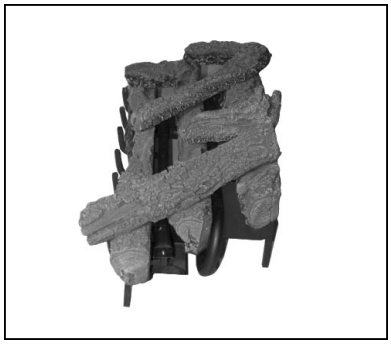


HM2-RO-18 Side View

HM2-RO-24 Front View

HM2-RO-24 Side View

HM2-RO-33 Front View

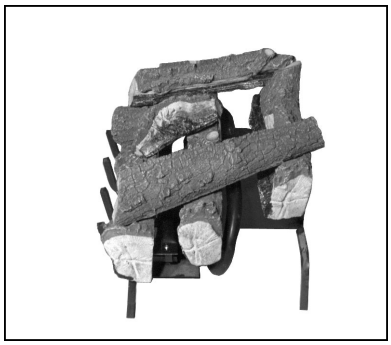


HM2-RO-33 Side View

WARNING: *Failure to position the parts in accordance with these diagrams or failure to use only the parts specifically approved with the heater may result in property damage or personal injury.*

LOG PLACEMENT PHOTOS (SO SERIES)

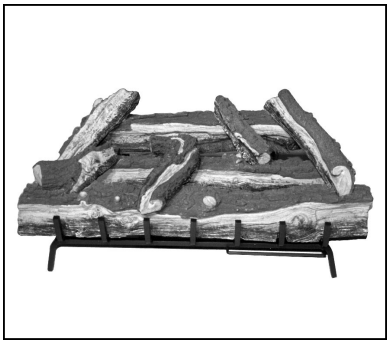
HM2-SO-18 Front View



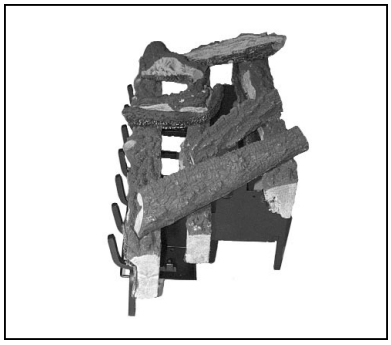
HM2-SO-18 Side View

HM2-SO-24 Front View

HM2-SO-24 Side View



HM2-SO-33 Front View



HM2-SO-33 Side View

WARNING: *Failure to position the parts in accordance with these diagrams or failure to use only the parts specifically approved with the heater may result in property damage or personal injury.*

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly. This appliance is equipped with a push button piezo ignition device which can be used to light the pilot. If the piezo fails to ignite the pilot, then follow the instructions for lighting pilot with match.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control handle. Never use tools. If the handle will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information previously listed above.
2. Turn gas control knob clockwise ↷ to the "OFF" position. Do not force. (FIG. 5)
3. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
4. Locate pilot - follow metal tube from gas control. The pilot is mounted on a bracket that is fastened to the side of the right hand cradle. (FIG. 4)
5. Turn knob on gas control (FIG. 5) counterclockwise ↶ to the "PILOT" position.
6. Push in control knob all the way and hold in. While still holding the control knob, press in the igniter push button (FIG. 5) several times. This will cause a spark at the pilot burner which will ignite the pilot flame. Continue to hold the control knob (FIG. 5) in for about (1) minute after the pilot is lit. Release knob and it will pop back out. Pilot should remain lit. If it goes out, repeat steps 1 through 6.

- If the knob does not pop out when released, stop and immediately call your service technician or gas supplier.
- If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
- LIGHTING PILOT WITH MATCH: Turn control knob (FIG. 5) to the "PILOT"position. Place a lit match at the pilot burner (FIG. 4), then push the knob in. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back out. Pilot should remain lit. If it goes out, repeat the above step.
- If the pilot will not stay lit after several tries, turn the gas control knob (FIG. 5) to "OFF" and call your service technician or gas supplier.

7. Turn knob counterclockwise ↶ to "HI" or "LOW".

TO TURN OFF GAS TO APPLIANCE

Turn gas control knob (FIG. 5) clockwise ↷ to the "OFF" position. Do not force. If optional power is used, it must be turned off.

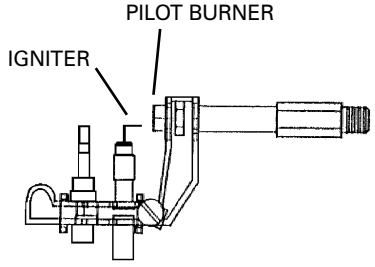


FIG. 4

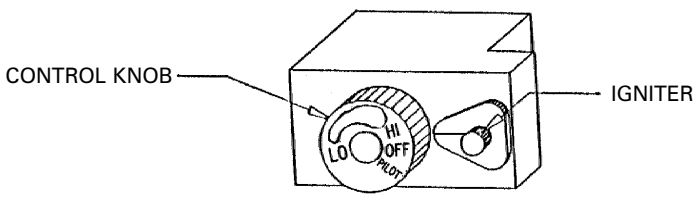


FIG. 5

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly. This appliance is equipped with a push button piezo ignition device which can be used to light the pilot. If the piezo fails to ignite the pilot, then follow the instructions for lighting pilot with match.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS
- ◆ Do not try to light any appliance.
- ◆ Do not touch any electrical switch; do not use any phone in your building.
- ◆ Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- ◆ If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information previously listed above.
2. Turn main gas control knob (FIG. 7) clockwise ↷ to the "OFF" position.
3. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
4. Locate pilot - mounted on the inside of the right hand bracket that holds the burner in place, just behind the front part of the burner. (FIG. 6)
5. Depress main control knob (FIG. 7) slightly and turn counterclockwise ↶ to the "PILOT" position. With main control knob (FIG. 7) at "PILOT", depress until it stops and press on the igniter push-button several times. (FIG. 7) This will cause a spark at the pilot burner which will ignite the pilot flame. Continue to hold the main control knob (FIG. 7) in for about (1) minute after the pilot is lit. Release knob and it will pop back out. Pilot should remain lit. If it goes out, repeat steps 1 through 5.

- ◆ If the knob does not pop out when released, stop and immediately call your service technician or gas supplier.
- ◆ LIGHTING PILOT WITH MATCH: Turn main control knob (FIG. 7) to the "PILOT"position. Place a lit match at the pilot burner, then push the main control knob in. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back out. Pilot should remain lit. If it goes out, repeat the above step.
- ◆ If the pilot will not stay lit after several tries, turn the gas control knob (FIG. 7) to "OFF" and call your service technician or gas supplier.

6. Slightly depress main control knob (FIG. 7) and turn counterclockwise ↶ to the "ON" position. Adjust heat output to the desired level by turning the HI/LOW control knob.

TO TURN OFF GAS TO APPLIANCE

Turn main gas control knob (FIG. 7) clockwise ↷ to the "OFF" position. Do not force.

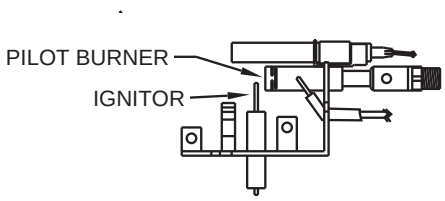


FIG. 6

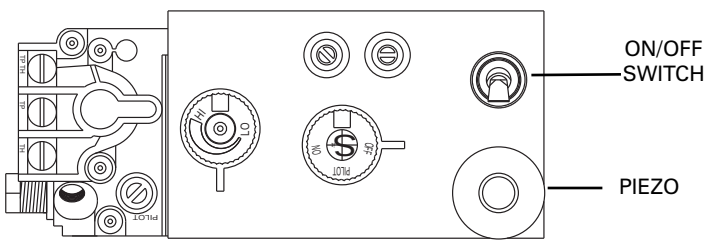


FIG. 7

CLEANING AND MAINTENANCE INSTRUCTIONS

ALWAYS REMEMBER:
1. Do not operate this appliance without the fireplace screen closed.
2. Do not place any combustible material near the appliance.
3. Do not place any paper, trash or other material on the log set or in the heater.
4. Do not touch any part of the appliance when the unit is operation.

Your gas log set is designed to be virtually maintenance free, although periodic visual inspection and cleaning is required. Follow the instructions below for the correct procedures.

If at any time the flames on your log set look abnormal or an odor is noticed that you feel is coming from the appliance, contact a qualified service technician or the gas company.

Periodically, visually inspect the main burner flames as well as the pilot flame. The appearance of these flames should resemble the drawings on page 18. Any measurements are approximate. Flame heights may vary slightly.

Fireplaces can be very dusty areas, therefore at least monthly during the heating season clean the unit by following the guidelines below.

CAUTION: Before cleaning the appliance, be sure it is turned completely off. The pilot should also be turned off. The unit must be completely cooled.

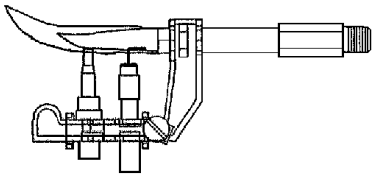
DO NOT USE ANY CLEANING FLUIDS OR TOOLS FOR CLEANING PURPOSES

1. Remove logs from grate assembly and place on the floor close to the fireplace.
2. Lightly vacuum any loose particles or dust from the grate and burner.
3. Lightly vacuum any loose particles or dust from the pilot flame area, being sure not to touch any part of the pilot with the vacuum.
4. Lightly vacuum any dust from the logs.

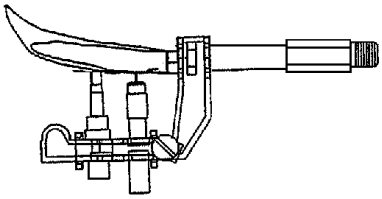
NOTE: If any of the appliance parts are hit with the vacuum or the grate assembly is moved during cleaning, gas leaks could occur. If this happens, be sure to check for leaks as described in this instruction manual.

5. Carefully replace logs on the grate assembly and relight the pilot as instructed in this manual.

PROPANE GAS

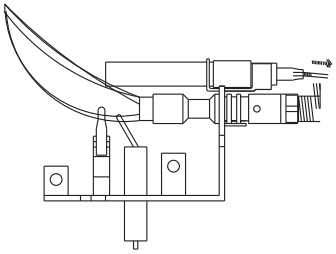


NATURAL GAS

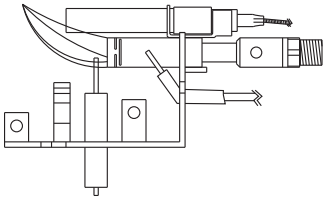


MANUAL AND THERMOSTATIC VALVES

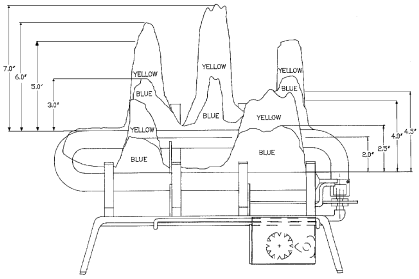
NATURAL GAS



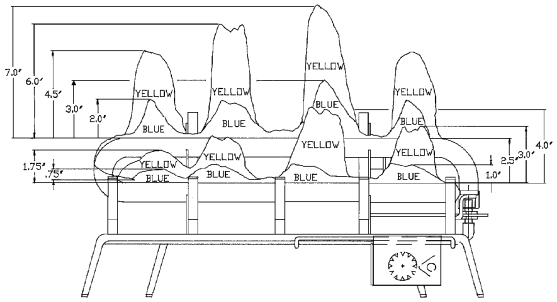
PROPANE GAS



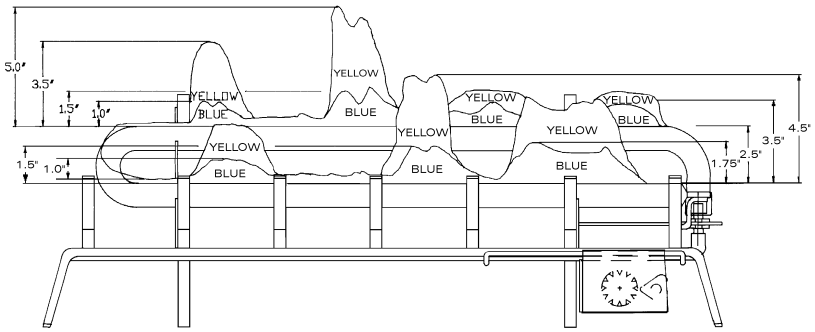
MILLIVOLT VALVES



18″ Log Set



24″ Log Set



33″ Log Set

INSTALLATION INSTRUCTIONS
WHEN INSTALLING AS A VENTED DECORATIVE APPLIANCE

When installing as a vented appliance, the following statements and charts must be followed.

- Thermostat models can not be installed as a vented appliance under ANSI Z21.60-CGA 2.26-M96T standard (i.e. HM2-Tstat-24 and HM2-Tstat-33).

- This appliance must be installed only in a solid-fuel burning fireplace with a working flue, and constructed of noncombustible material.

- Solid fuels shall not be burned in a fireplace where a decorative appliance is installed. The minimum permanent free opening (in square inches) that must be provided by either a fireplace chimney or chimney damper must be provided (See chart on next page.)

- The chimney damper must be fixed in a manner which will maintain the minimum permanent vent opening at all times. To accomplish this, install a damper clamp on the edge of the damper blade to prevent its closing, or drill a hole or holes in the damper.

- See chart below when installing as a vented decorative appliance for the minimum size fireplace that can be used.

	HM2-18LP HM2-18 NAT HM2-MIL-18LP HM2-MIL-18NAT	**HM2-24LP HM2-24-NAT HM2-MIL-24LP HM2-MIL-24NAT**	**HM2-33-LP HM2-33-NAT HM2-MIL-33LP HM2-MIL-33NAT**
Height of Front Opening	15″	15″	15″
Width of Front Opening	20″	25″	34″
Depth	14″	14″	14″

TABLE 1A
for
FACTORY BUILT FIREPLACES

Free opening area of chimney damper for venting combustion products from decorative appliances for installation in solid fuel burning fireplaces.

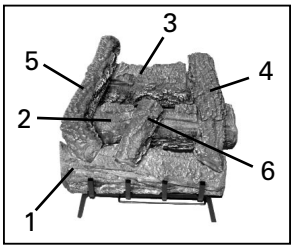
MINIMUM PERMANENT FREE OPENING IN SQUARE INCHES						
Chimney Height (Feet)	18″ Log Set LP Gas	18″ Log Set Natural Gas	24″ Log Set LP Gas	24″ Log Set Natural Gas	33″ Log Set LP Gas	33″ Log Set Natural Gas
10	16.6	16.6	22.1	22.1	22.1	22.1
15	12.6	12.6	17.3	17.3	17.3	17.3
20	10.8	10.8	14.5	14.5	14.5	14.5
25	9.6	9.6	12.6	12.6	12.6	12.6
30	9.1	9.1	11.3	11.3	11.3	11.3
35	8	8	10.8	10.8	10.8	10.8
40	7.5	7.5	10.2	10.2	10.2	10.2

TABLE 2A
for
MASONRY BUILT FIREPLACES

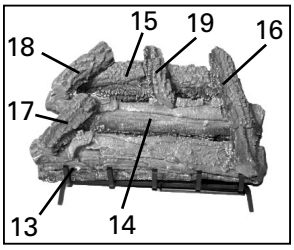
Free opening area of chimney damper for venting combustion products from decorative appliances for installation in solid fuel burning fireplaces.

MINIMUM PERMANENT FREE OPENING IN SQUARE INCHES						
Chimney Height (Feet)	18″ Log Set LP Gas	18″ Log Set Natural Gas	24″ Log Set LP Gas	24″ Log Set Natural Gas	33″ Log Set LP Gas	33″ Log Set Natural Gas
6	25.7	25.7	33.8	33.8	33.8	33.8
8	23.7	23.7	31.2	31.2	31.2	31.2
10	21.7	21.7	28.7	28.7	28.7	28.7
15	19.9	19.9	26.1	26.1	26.1	26.1
20	18.5	18.5	23.7	23.7	23.7	23.7
30	16.9	16.9	21.6	21.6	21.6	21.6

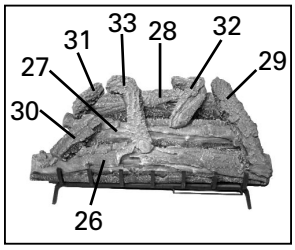
LOG PARTS LIST



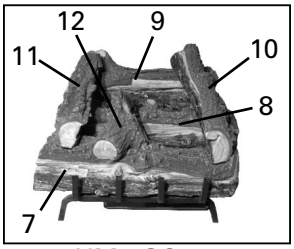
HM2-RO-18



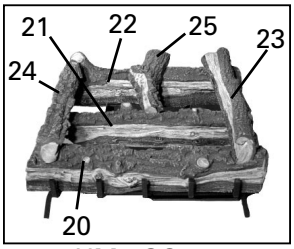
HM2-RO-24



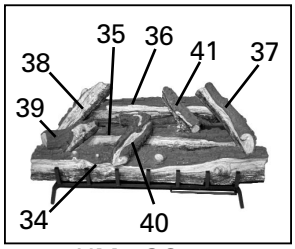
HM2-RO-33



HM2-SO-18



HM2-SO-24



HM2-SO-33

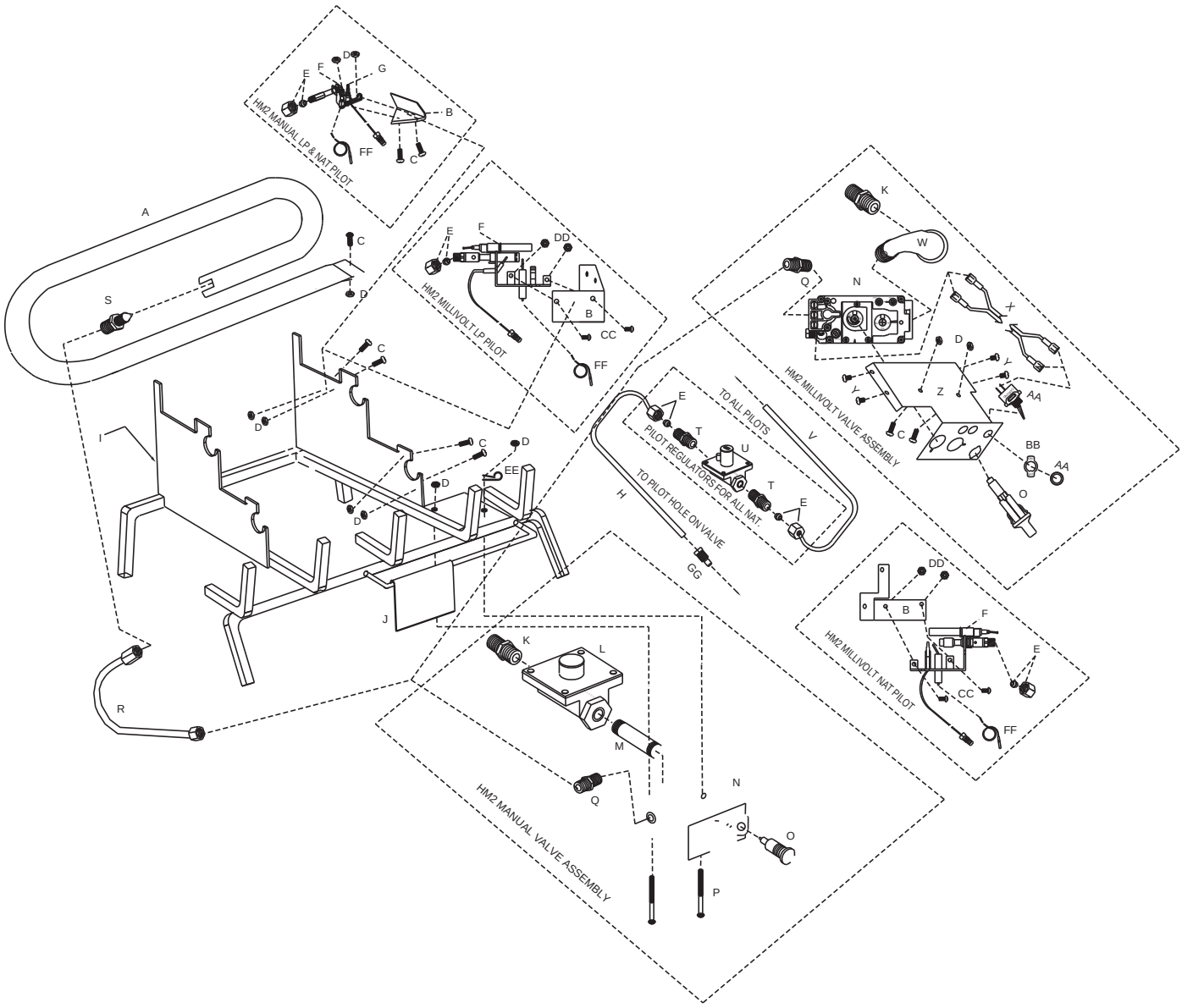
KEY NUMBER	PART NO.	DESCRIPTION	KEY NUMBER	PART NO.	DESCRIPTION
1	Log # 429	Front Log	21	Log # 436	Middle Log
2	Log # 430	Middle Log	22	Log # 437	Back Log
3	Log # 431	Back Log	23	Log # 416	Right Log
4	Log # 432	Right Log	24	Log # 438	Left Log
5	Log # 444	Left Log	25	Log # 415	Middle Top Log
6	Log # 409	Middle Top Log	26	Log # 405	Front Log
7	Log # 439	Front Log	27	Log # 406	Middle Log
8	Log # 440	Middle Log	28	Log # 407	Back Log
9	Log # 441	Back Log	29	Log # 410	Right Log
10	Log # 416	Right Log	30	Log # 409	Left Bottom Log
11	Log # 438	Left Log	31	Log # 408	Left Top Log
12	Log # 415	Middle Top Log	32	Log # 274	Center Right Log
13	Log # 426	Front Log	33	Log # 411	Center Left Log
14	Log # 427	Middle Log	34	Log # 412	Front Log
15	Log # 428	Back Log	35	Log # 413	Middle Log
16	Log # 410	Right Log	36	Log # 414	Back Log
17	Log # 409	Left Bottom Log	37	Log # 416	Right Log
18	Log # 424	Left Top Log	38	Log # 433	Left Top Log
19	Log # 408	Middle Top Log	39	Log # 415	Left Bottom Log
20	Log # 435	Front Log	40	Log # 274	Center Bottom Log
			41	Log # 434	Center Right Log

Parts may be ordered directly from:

HEATMASTER, INC.
3625 Benson Road, P.O. Box 1717
Angier, NC 27501
(919) 639-4568

When ordering, please include complete part number, part name and description.

PARTS DIAGRAM


HM2 MANUAL LP & NAT PILOT
HM2 MILLIVOLT LP PILOT
HM2 MILLIVOLT VALVE ASSEMBLY
HM2 MILLIVOLT NAT PILOT
HM2 MANUAL VALVE ASSEMBLY
TO ALL PILOTS
PILOT REGULATORS FOR ALL NAT.
TO PILOT HOLE ON VALVE

PARTS LIST

KEY LETTER	PART NO.	DESCRIPTION
A	11-1181b	Burner, HM2-18
A	11-1182b	Burner, HM2-24
A	11-1183b	Burner, HM2-33
B	11-1350	Pilot Bracket for HM2 Manual
B	16-1100	Pilot Bracket for LP HM2 Millivolt
B	16-1110	Pilot Bracket for NAT HM2 Millivolt
C	01-1080	Screw, 10-32 X 1/2"
D	01-1095	Nut, 10-32
E	11-1076	Nut & ferrule for 3/16" tubing
F	11-1075	#57 Pilot ODS LP (Manual Valve)
F	11-1080	#56 Pilot ODS NG(Manual Valve)
F	16-1040	ODS Pilot (LP Millivolt Valve)
F	16-1045	ODS Pilot (NG Millivolt Valve)
G	11-1060	Thermocouple
H	03-1000	3/16" Pilot gas line 16"
I	11-1265b	Grate, HM2-18
I	11-1270b	Grate, HM2-24
I	11-1275b	Grate, HM2-33
J	11-1295	Valve Cover Plate
K	01-1004	Brass 3/8" MPT to 3/8" Flare Male Half Union
L	06-1030	Regulator 10.0 (LP) 3/8"
L	06-1031	Regulator 4.0 (Nat) 3/8"
M	11-1185	3/8" Nipple 3.5" long
N	11-1095	Valve, Manual SIT 522
N	11-1100	Valve, Thermostatic SIT 504
N	16-1030	Valve, Millivolt LP 10"
N	16-1035	Valve, Millivolt NAT 3.5"
O	11-1164	Piezo (Manual and Thermostatic)
O	11-1166	Piezo (Millivolt Valve Assembly)
P	11-1170	Screw, 10-32 X 2 1/2"
Q	11-1036	Burner Orifice (HMU style)
R	03-1003	3/8" Gas Line 12" long
R	01-1031	3/8" Flare Nuts
S	11-1036	Valve Orifice (HMU style)
T	11-1155	Compression connectors, 3/16 Com X 1/8 MPT (Nat Only)
U	11-1150	Maxitrol 3.0" Pilot Reg (Man/Therm Nat Only)
U	16-1050	Maxitrol 4.5" Pilot Reg (Millivolt Nat Only)
V	03-1000	3/16" Pilot gas line 2.5" (Nat Only)
W	07-1020	3/8" NPT 90° St Elbow
X	16-1014	14" long Jumper with 4 Female Spade Cripons
Y	01-1158	Screw, 10-32 x 1/4" (Millivolt Valve Only)
Z	16-1120	HM2 Millivolt Valve Bracket
AA	11-2265	Carling Single Pole / Single Throw Switch
BB	16-1125	On/Off Indicator for Switch Y01
CC	11-1445	Screw, 8-32 x 5/16
DD	02-1075	Keps Nut, 8-32
EE	11-1101	Thermostatic bulb holding Plastic Clip
FF	16-1130	Piezo Wire 12"
GG	11-1441	3/16" Loxit Nut & Sleeve

Parts may be ordered directly from:

HEATMASTER, INC.
3625 Benson Road, P.O. Box 1717
Angier, NC 27501
(919) 639-4568

When ordering, please include complete part number, part name and description.

HEATMASTER, INC.
LIMITED WARRANTY

All refractory cement logs manufactured by HEATMASTER, Inc. have a lifetime warranty against breakage due to heat to the original owner in the original installation.

All other logs supplied from HEATMASTER, Inc. have a 2 year warranty against breakage due to heat to the original owner in the original installation.

- All metal parts, including burners and grate assemblies are warranted for 5 years.
- All other mechanical parts are warranted for 1 year.

LIMITATIONS

1. HEATMASTER, Inc.'s obligations to the purchaser under this warranty is limited to the repair or replacement of defective part.
2. Repairs or replacement will be performed by HEATMASTER, Inc. following delivery of the product by the purchaser to HEATMASTER, Inc.'s facility in Angier, North Carolina. The cost of mailing or other delivery to HEATMASTER, Inc. shall be borne by the purchaser. The mailing address is: HEATMASTER, Inc., P.O. Box 1717, 3625 Benson Rd., Angier, NC 27501.
3. Along with the product, the purchaser shall include a written explanation of the approximate date the product was purchased, the dealer or person from whom the product was purchased, the date the defect was first noticed, a description of the nature of the defect, and what the purchaser did, if anything, to repair or correct the defect.
4. To the extent allowed by law, any **implied warranty of merchantability** or **fitness** applicable to this product is limited to the duration of this warranty. HEATMASTER, Inc. shall not be liable for loss of use of this product, loss of time, inconvenience, commercial loss or consequential damages. The remedy of repair or replacement of a defective part during the warranty period herein specified shall be the purchaser's exclusive remedy.
5. HEATMASTER, Inc. is not responsible for any loss or damages caused by purchaser's failure to follow operating and maintenance instructions provided in the owner's manual.

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Dear Purchaser:

We are pleased that you have selected our product and take this opportunity to assure you that qualified service is available if required.

Please review and complete the enclosed Warranty/Registration card.

Who gets the warranty? The warranty is limited to the consumer who originally purchased the product.

What is covered? This limited warranty covers all imperfections in workmanship and material.

What is not covered? This limited warranty does **not** cover damage resulting from accident, misuse or abuse, lack of proper maintenance, affixing of any attachments not provided with the products, or loss of parts. *IN NO EVENT SHALL HEATMASTER, INC. BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM MISUSE OR MODIFICATION OF THIS PRODUCT.*

DEFECTIVE PARTS OR BROKEN LOGS FOR REPLACEMENTS MUST BE RETURNED TO THE FACTORY PREPAID ALONG WITH **PROOF OF PURCHASE**. FACTORY WILL REPAIR OR REPLACE AT FACTORY OPTION AND RETURN TO PURCHASER FREIGHT PREPAID.